

Emiliano Jimenez Guadarrama

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EDUCATION

UNIVERSITY OF OTTAWA

Ottawa, ON

Bachelor of Science (BSc) in Mathematics and a Bachelor of Science (BSc) in Computer Science (Data Science), 2021 - Present (French Immersion).

Cumulative GPA: 8,41/10; Dean's List 2021, 2023.

Relevant Coursework: Data Science, Databases, Statistics, Regression Analysis, Analysis of Experimental Designs, Algorithms.

UNIVERSITY PROJECTS

[ON THE STREETS OF OTTAWA: A PERSPECTIVE ON DRUGS CRIME AND HOMELESSNESS](#)

[\(DASHBOARD\)](#)

Sep 2023 - Dec 2023

- Designed and deployed a dashboard using **Dash Plotly** and **Bootstrap**.
- Implemented multiple interactive graphs and maps using **Altair**, **Geopandas** and **Dash Plotly**.
- Cleaned, wrangled and analyzed data using multiple statistical methods like hypothesis testing, trajectory analysis and k-means with **Python (Pandas, Numpy, Scikit)** and **R**.
- Searched and accessed data from multiple governmental open datasets.

[HOTEL BOOKING WEBSITE WITH POSTGRESQL](#)

Jan 2023 - May 2023

- Designed and implemented a **PostgreSQL relational database** to work in conjunction with a booking website, in a 3 person team using **GIT** and **GITHUB**.
- Effectively implemented triggers, indexing, queries, merges, and functions using **SQL**.
- Connected the database to the website using **DJANGO**.

PERSONAL PROJECTS

[PORTFOLIO WEBPAGE](#)

January 2024

- Designed, developed and deployed a portfolio website using **REACT**, **HTML**, **CSS**, and **JAVASCRIPT**.
- Packaged the code using **WEBPACK**.
- Used the **TERMINAL** in addition to **NPM** to improve development efficiency.

[SOLUTIONS TO INTRODUCTION TO PROBABILITY by Joseph K. Blitzstein and Jessica Hwang](#)

May 2023 - Present

- More than 20 pages of solutions I conceived to selected exercises in this book.
- The solutions were typed using **LATEX** and the calculations were done using the **R** statistical language.

WORK EXPERIENCE

UNIVERSITY OF OTTAWA Sports Services

Ottawa, ON

Photographer/Videographer

January 2024 - Present

- Collaborate with the Gee-Gees social media team to produce required content for the social media calendar.
- Take photos and create videos to promote the university sports teams.

ACTIVITIES

SUNU COCINA MEXICANA

Texcoco, MX

Cook Apprentice

Summer 2022, Summer 2023

- Learned how to cook and serve under Chef Martin.
- Worked in a team of multiple people where communication took different forms since most of the kitchen staff was deaf/mute.

BLATT MEXICO

Mexico City, MX

Photographer

Aug 2021 - Sep 2021

- Collaborated with the marketing team and a model/athlete to take the envisioned photos at a sports competition. I edited the pictures using Adobe Lightroom.
- I have 3 years of formal experience as a photographer/photo-editor under Luis de Sandoval Nikon NPS.

ADDITIONAL

Technical Skills: Advanced in Javascript, HTML/CSS, Java, Go, Python, Statistical methods ; Proficient in SQL, Prolog, Scheme, Git, **UNIX(MacOs, Linux)**/Terminal, Excel.

Languages: Fluent in English, Spanish; Conversational Proficiency in French, German.

Certifications & Training: Online course in full-stack web development (in progress) at The Odin Project.

Awards: Part of the State of Mexico Taekwondo representative team, 2018. Dean's List scholarship 2021, 2023.